

Notice of Allowability	Application No.	Applicant(s)	
	10/614,596	YAMAGUCHI, SUSUMU	
	Examiner	Art Unit	
	Jack Dinh	2873	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is so	this application. If not inclu nication will be mailed in du	ded e course. <b>THIS</b>
1. 🛮 This communication is responsive to <u>07/07/03</u> .			
2. ⊠ The allowed claim(s) is/are <u>1-21</u> .			
3. $igspace$ The drawings filed on <u>07 July 2003</u> are accepted by the Ex	xaminer.		
4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.  A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give (a)  including changes required by the Notice of Draftspers 1)  hereto or 2)  to Paper No./Mail Date  (b)  including changes required by the attached Examiner' Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the company of the paper No.  Paper No.	e been received. e been received in Application ocuments have been received of this communication to file MENT of this application.  Initted. Note the attached EXA es reason(s) why the oath or set be submitted. Is son's Patent Drawing Review of Amendment / Comment or 1.84(c)) should be written on the header according to 37 CFI seit of BIOLOGICAL MATE	in No in this national stage application this national stage application are ply complying with the remarkable of the complex of the declaration is deficient.  (PTO-948) attached in the Office action of the drawings in the front (not the 1.121(d)).  RIAL must be submitted.	equirements  NOTICE OF
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./f 08), 7. ☐ Examiner's A 8. ☑ Examiner's S	ormal Patent Application (Pimmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for All aminer 2800	·

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04) Technology

Notice of Allowability

Part of Paper No./Mail Date 0604

Application/Control Number: 10/614,596

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## **REASONS FOR ALLOWANCE**

1. Claims 1-21 are allowed. The following is a statement of the examiner's reasons for allowance. The present invention relates to an image pickup lens preferably as an optical system of a solid state pickup element. Regarding independent claim 1, the prior art fails to disclose an image pickup lens comprising four lenses wherein the first lens has positive refractive power and has a convex surface facing toward the object side, the second lens has the positive refractive power, the third lens has negative refractive power and has a concave surface facing toward the object side to be formed in a meniscus shape, and the fourth lens has the positive or negative refractive power and has a convex surface facing toward the object side to be formed in the meniscus shape. Regarding independent claim 11, the prior art fails to disclose that an image side surface of the fourth lens satisfies the conditional formula X - Xo < 0, where X is a displacement value of an aspherical surface and Xo is a displacement value of a rotational quadratic surface component of the aspherical surface. Regarding independent claim 18, the prior art alone or in combination fails to disclose an image pickup unit comprising, inter alia, a solidstate image pickup element having a photoelectric transfer unit, an image pickup lens, a substrate, a casing, wherein the length of the image pickup unit in a direction of an optical axis of the image pickup lens is not more than 15 mm and the image pickup lens comprises four lenses with the lens arranged nearest to the object side has the positive refractive power. The claimed invention is therefore considered to be in condition for allowance as being novel and non-obvious over prior art.

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2. The prior art taken either singly or in combination fails to anticipate or fairly suggest the limitations of the independent claims, in such a manner that a rejection under 35 USC 102 or 103 would be improper. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Other Information/Remarks

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Isono (U.S. Patent 6,744,570), and Tanaka (U.S. Patent 5,739,966) disclose lens systems comprising four lenses wherein the first lens has a positive refractive power.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Dinh whose telephone number is 571-272-2327. The examiner can normally be reached on M-F (9:30 AM - 6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jack Dinh

Georgia Epps Supervisory Patent Examiner Technology Center 2800 Page 4